

ABSTRACT OF THE DISCLOSURE

A power regulator has a heat sink, a case and a PCB. The case is mounted on a top of the heat sink, and multiple holes are defined in the case. The PCB is mounted vertically on top of the heat sink and has a fuse bracket, a wire connector, an input terminal, an output terminal and a circuit including a fuse in the fuse bracket, transformer, power transistors, etc. The fuse bracket, wire connector and the input and output terminals are aligned with corresponding holes in the case so a person can replace the fuse and connect or disconnect wires without removing the PCB from the case. Further, the PCB is thin and mounted vertically on top of the heat sink, so the heat sink and the case can be formed in an upright rectangular shape. Consequently, a power control box using the power regulator requires less space.